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ABSTRACT

An analysis of population and public school enrollment trends in Colorado counties from 1960 to 1979 is described in this report, and simplified methods for projecting future enrollments on the basis of the historical data are provided. Population and enrollment trend data for Adams County are included in the document as examples of the data developed during the study, but similar data for the other Colorado counties must be obtained separately. The information provided in the five tables on Adams County includes census figures and estimates of population for the years analyzed, fall school enrollment figures, and percentages of annual change in these data; fall grade level enrollments as percentages of total school enrollment; numbers that can be used as multipliers to figure the relationships between each grade level and the next lower level during any given year; and numbers that can be used as multipliers to figure enrollment change as cohorts move from one grade level to the next in succeeding years. (PGD)

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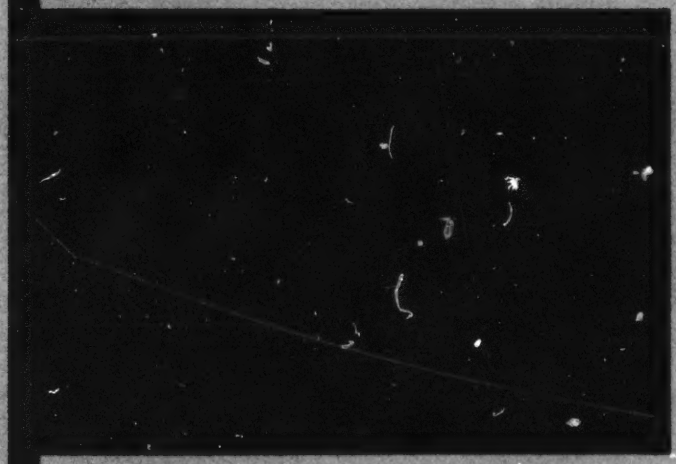

Center for Educational Leadership Services

SCHOOL OF EDUCATION
UNIVERSITY OF COLORADO
BOULDER, COLORADO

EA 014 973

POPULATION, LIVE BIRTHS, LIVE BIRTH RATE AND FALL PUBLIC SCHOOL ENROLLMENTS IN COLORADO AND COLORADO COUNTIES 1960-1979

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September, 1980

Population, Live Births, Live Birth Rate, and Fall Public School Enrollments for Colorado and Colorado Counties 1960-1979

This volume contains data on population, live births, live birth rate, Fall grade level and total public school enrollments for Colorado and Colorado counties for each of the years 1960 through 1979 (with the exception of grade level enrollments for the year 1960). These data were collected from various sources listed at the back of this volume and are presented here in one volume to save others many hours of data collection efforts. These data were collected and compiled for a study to project public school enrollments in Colorado and Colorado counties which was conducted over the period December 1978 through December 1980. As a result of that study several volumes of reports were published.

1. PROJECTED COLORADO PUBLIC SCHOOL ENROLLMENTS TO THE YEAR 2000, Regents of the University of Colorado, Boulder, Colorado, 15 pp.
2. PROJECTED COLORADO PUBLIC SCHOOL ENROLLMENTS TO THE YEAR 2000-TECHNICAL REPORT. Regents of the University of Colorado, Center for Educational Leadership Services, School of Education, University of Colorado, Boulder, Colorado, 56 pp.
3. POPULATION, LIVE BIRTHS, LIVE BIRTH RATE, AND FALL PUBLIC SCHOOL ENROLLMENTS FOR COLORADO AND COLORADO COUNTIES 1960-1979. (65 volumes)
4. PROJECTED PUBLIC SCHOOL ENROLLMENTS IN COLORADO COUNTIES TO THE YEAR 2000, Center for Educational Leadership Services, School of Education, University of Colorado, Boulder, Colorado

The school enrollment projection project was initiated at the request of the Regents of the University of Colorado and was completed in order to provide data for educational planning for agencies in Colorado.

This volume provides historical data for each of the counties of Colorado as well as the state as a whole. Table 1 for each county and the state includes population by census for the years 1960 and 1970, population estimates for each of the years 1961-1969 and 1971-1979, actual count live births, live birth rate per one thousand population computed from population and live births, and Fall total school enrollment. In addition there is given a computed percent change from year to year for each of these four sets of data. Lastly Table 1 includes the mean percent change from year to year for the 1961-1979 period. The data on percent change from year to year and the mean percent change for the period allow the reader to identify growth and decline patterns quickly. By comparing two or more of the percent change columns either by sight or by more sophisticated methods, one can determine relationships between the changes in the data from year to year. Thus one can obtain potentially useful information for planning for the future.

Table 2 presents Fall grade level enrollment data for each of the years 1961-1979. Mean enrollments by grade level are also given. The grade category "other" includes enrollment in non-graded classes, special education, pre-school, etc.

Table 3 presents Fall grade level enrollments as a percent of total school enrollment. Means by grade level are also given.

Table 4 presents the multipliers needed to obtain enrollment in one grade from enrollment in the next lower grade within the same year. These were computed by dividing enrollment in a grade by enrollment in

the next lower grade within the same year. Means for each level are also presented.

Table 5 presents what is commonly termed "cohort survival multipliers." Cohort survival multipliers are in actuality factors which allow one to compute enrollment in one grade one year from enrollment in the previous grade the previous year. In effect these factors allow one to "follow" an age group from one year to the next. These multipliers were computed from the entries in Table 2 by dividing enrollment in one grade one year by the enrollment in the previous grade the previous year. Means at each level are also given. In addition, the product of the means is given. This product, in a sense, gives one an estimate of how many students might be estimated to enter grade twelve from the number of students entering kindergarten twelve years previous. Thus, in a sense, the product of the means in Table 5 is a measure of the "survival rate" for a schools program.

The means given in Table 5 are useful in estimating grade enrollments for the future (in the neighborhood of 5-6 years) from known enrollments using the procedure given below. This method of projection is called "cohort survival projection," thus the entries at the bottom of Table 5 could prove useful for local officials.

Stepwise instructions for using the cohort survival multipliers for estimating grade level enrollments in the future

As was indicated above the mean entries at the bottom of Table 5 can be used to project grade level enrollment from known enrollment at present. Suppose one wished to project grade seven enrollment for five years.

1. Construct a matrix with years given along the left and grade levels across the top. Years should begin with the year of last known enrollments and grade levels should begin with kindergarten and progress through the desired grade level.

Grade Levels

Year	K	1	2	3	4	5	6	7
1979								
1980								
1981								
1982								
1983								
1984								

2. Enter the known enrollments for the first year (hypothetical case)

	K	1	2	3	4	5	6	7
1979	550	625	640	680	672	676	661	660
1980								
1981								
1982								
1983								
1984								

3. At the top of the matrix between the grade levels enter the mean multipliers from the bottom of Table 5. (Those given in this example are for the State of Colorado.)

		1.146	.984	1.002	1.007	1.008	1.001	1.038
	K	1	2	3	4	5	6	7
1979	550	625	640	680	672	676	661	660
1980								
1981								
1982								
1983								
1984								

4. Multiply enrollment in a grade by the multiplier at the top right of that grade column to obtain estimated enrollment in the next grade the next year.

		1.146	.984	1.002	1.007
	K	1	2	3	
1979	550	625	640	680	
1980		X			
1981			Y		
1982				Z	

Thus to get the entry in the box marked X multiply 550 by 1.146 to obtain 630. The box marked Y would be 630 x .984=620. Z would be 620 x 1.002=621.

5. Continue this process until the table is completed downward along the diagonal lines.

		1.146	.984	1.002	1.007	1.008	1.011	1.038
	K	1	2	3	4	5	6	7
1979	550	625	640	680	672	676	661	660
1980		630	615	641	685	677	683	686
1981			620	616	645	690	684	708
1982				621	620	650	698	710
1983					625	625	657	725
1984						630	632	682

Thus one <u>estimate</u> for grade seven enrollment in 1984 for this county (hypothetical) is 682. The word estimate here is underscored and should be constantly kept in mind. This method of projection yields only grade level estimates and is not sensitive to all factors involved in enrollments.

As was indicated above Tables 1 through 5 are included for each county and the state as a whole. Counties are numbered consecutively from 1 to 63 in alphabetical order and the state is given the number 64.

Numbering of Counties
(The page number for Table 1 is given in parenthesis)

1. Adams (8)
2. Alamosa (13)
3 Arapahoe (18)
4. Archuleta (23)
5. Baca (28)
6. Bent (33)
7. Boulder (38)
8. Chaffee (43)
9. Cheyenne (48)
10. Clearcreek (53)
11. Conejos (58)
12. Costilla (63)
13. Crowley (68)
14. Custer (73)
15. Delta (78)
16. Denver (83)
17. Dolores (88)
18. Douglas (93)
19. Eagle (98)
20. Elbert (103)
21. El Paso (108)
22. Fremont (113)

23.	Garfield	(118)	44.	Morgan	(223)
24.	Gilpin	(123)	45.	Otero	(228)
25.	Grand	(128)	46.	Ouray	(233)
26.	Gunnison	(133)	47.	Park	(238)
27.	Hinsdale	(135)	48.	Phillips	(243)
28.	Huerfino	(143)	49.	Pitkin	(248)
29.	Jackson	(148)	50.	Prowers	(253)
30.	Jefferson	(153)	51.	Pueblo	(258)
31.	Kowa	(158)	52.	Rio Blanco	(263)
32.	Kit Carson	(163)	53.	Rio Grande	(268)
33.	Lake	(168)	54.	Routt	(273)
34.	La Plata	(173)	55.	Saguache	(278)
35.	Larimer	(178)	56.	San Juan	(283)
36.	Las Animas	(183)	57.	San Miguel	(288)
37.	Lincoln	(188)	58.	Sedgwick	(293)
38.	Logan	(193)	59.	Summit	(298)
39.	Mesa	(198)	60.	Teller	(303)
40.	Mineral	(203)	61.	Washington	(308)
41.	Moffat	(208)	62.	Weld	(313)
42.	Montezuma	(213)	63.	Yuma	(318)
43.	Montrose	(218)	64.	State of Colorado	(323)

Thus Table 3 for El Paso County is numbered Table 21-3.

The tables follow.

TABLE 1-1. POPULATION, LIVE BIRTHS, LIVE BIRTH RATE AND TOTAL SCHOOL ENROLLMENT FOR THE YEARS 1960 THROUGH 1979 ALONG WITH THE PERCENT CHANGE IN EACH FROM THE PREVIOUS YEAR.

YEAR	POPULATION	PERCENT CHANGE	LIVE BIRTHS	PERCENT CHANGE	LIVE BIRTH RATE	PERCENT CHANGE	SCHOOL ENROLLMENT	PERCENT CHANGE	YEAR
1960	120296.		3744.		31.1		27247.		1960
1961	133000.	10.561	4096.	9.402	30.8	-1.048	30018.	10.170	1961
1962	141000.	6.015	3974.	-2.979	28.2	-8.483	35292.	17.569	1962
1963	150000.	6.383	4105.	3.296	27.4	-2.901	38434.	8.903	1963
1964	155000.	3.333	3825.	-6.821	24.7	-9.827	41260.	7.353	1964
1965	158000.	1.935	3353.	-12.340	21.2	-14.004	42792.	3.713	1965
1966	163000.	3.165	3273.	-2.386	20.1	-5.380	44482.	3.949	1966
1967	169000.	3.681	3252.	-.642	19.2	-4.169	45980.	3.368	1967
1968	177000.	4.734	3352.	3.075	18.9	-1.584	48046.	4.493	1968
1969	181000.	2.260	3429.	2.297	18.9	.036	49986.	4.038	1969
1970	185789.	2.646	3787.	10.440	20.4	7.594	52234.	4.497	1970
1971	195595.	5.278	3622.	-4.357	18.5	-9.152	53669.	2.747	1971
1972	200900.	2.712	3533.	-2.457	17.6	-5.033	54332.	1.235	1972
1973	210200.	4.629	3725.	5.434	17.7	.770	53417.	-1.684	1973
1974	213400.	1.522	3786.	1.638	17.7	.113	52701.	-1.340	1974
1975	215300.	.890	4029.	6.418	18.7	5.479	52895.	.368	1975
1976	220500.	2.415	4144.	2.854	18.8	.429	52345.	-1.040	1976
1977	221400.	.408	4332.	4.537	19.6	4.112	51117.	-2.346	1977
1978	223900.	1.129	4418.	1.985	19.7	.846	49903.	-2.375	1978
1979	234800.	4.868	4589.	3.871	19.5	-.951	48223.	-3.367	1979
MEAN		3.609		1.225		-2.271		3.171	

(MEANS COMPUTED FROM NON-ZERO ENTRIES ONLY)

1 ADAMS COUNTY, COLORADO

TABLE 1-2. GRADE LEVEL ENROLLMENT BY YEAR

YEAR	K	1	2	3	4	5	6	7	8	9	10	11	12	OTHER	TOTAL
61	0	3694.	3462.	3134.	2862.	2680.	2456.	2419.	2345.	2199.	1668.	1241.	1031.	827.	30018.
62	2029.	3831.	3566.	3520.	3248.	2922.	2796.	2549.	2499.	2421.	2294.	1612.	1114.	891.	35202.
63	2248.	4048.	3803.	3550.	3536.	3252.	2993.	2964.	2633.	2464.	2442.	2144.	1458.	899.	38434.
64	2261.	4387.	3969.	3758.	3625.	3537.	3238.	3120.	3002.	2656.	2470.	2363.	1975.	919.	41260.
65	2390.	4520.	4238.	3978.	3796.	3618.	3616.	3324.	3087.	2935.	2521.	2340.	2067.	362.	42792.
66	2262.	4625.	4287.	4165.	3886	3681.	3578.	3624.	3374.	3111.	2969.	2451.	2033.	433.	44482.
67	2273.	4525.	4430.	4165.	4143.	3879.	3859.	3660.	3557.	3234.	3011.	2789.	2199.	256.	45980.
68	2265.	4157.	3889.	3973.	3776.	3927.	3856.	3730.	3637.	3588.	3294.	2888.	2535.	2531.	48046.
69	2741.	4421.	4448.	4343.	4545.	4215.	4137.	3957.	3743.	3709.	3624.	3077.	2539.	487.	49986.
70	3501.	3986.	3994.	4213.	4144.	4329.	4055.	4125.	3996.	3798.	3528.	3395.	3025.	2145.	52234.
71	3227.	3757.	3956.	4055.	4282.	4105.	4356.	4408.	4217.	4121.	3887.	3555.	3027.	2716.	53669.
72	3441.	3512.	3663.	3997.	4143.	4397.	4292.	4791.	4464.	4267.	4240.	3748.	3116.	2261.	54332.
73	3574.	3440.	3355.	3512.	3884.	3593.	4229	4577.	4645.	4412.	4187.	3706.	3184.	3119.	53417.
74	3535.	3466.	3373.	3308.	3490.	3788.	3968.	4622.	4475.	4607.	4335.	3808.	3224.	2702.	52701.
75	3645.	3532.	3391.	3375.	3326.	3469.	3928.	4484.	4554.	4497.	4426.	4038.	3551.	2679.	52895.
76	3788.	4097.	3777.	3656.	3694.	3694.	3821.	4247.	4332.	4513.	4348.	4224.	3538.	616.	52345.
77	3387.	4074.	3976.	3702.	3631.	3603.	3686.	3912.	4150.	4172.	4383.	4018.	3785.	638.	51117.
78	3232.	3742.	4004.	3854.	3688.	3645.	3503.	3814.	3937.	4262.	4065.	4011.	3506.	540.	49903.
79	3099.	3536.	3584.	3887.	3816.	3571.	3562.	3537.	3632.	3831.	4026.	3709.	3635.	798.	48223.
MEAN	2939.	3965.	3851.	3802.	3764.	3679.	3680.	3782.	3699.	3621.	3459.	3111.	2660.	1359.	47372.

(-0 ENTRY MEANS THAT THE DATA WERE NOT AVAILABLE.)
(MEANS ARE COMPUTED FROM THE NON-ZERO ENTRIES ONLY.)

1 ADAMS COUNTY, COLORADO

TABLE 1-3. GRADE LEVEL ENROLLMENT AS A PERCENT OF TOTAL SCHOOL ENROLLMENT BY YEAR

YEAR	GRADE LEVEL K	1	2	3	4	5	6	7	8	9	10	11	12	OTHER	TOTAL
61	0	12.3	11.5	10.4	9.5	8.9	8.2	8.1	7.8	7.3	5.6	4.1	3.4	2.8	100.0
62	5.7	10.9	10.1	10.0	9.2	8.3	7.9	7.2	7.1	6.9	6.5	4.6	3.2	2.5	100.0
63	5.8	10.5	9.9	9.2	9.2	8.5	7.8	7.7	6.9	6.4	6.4	5.6	3.8	2.3	100.0
64	5.5	10.6	9.6	9.1	8.8	8.6	7.8	7.6	7.3	6.4	6.0	5.7	4.8	2.2	100.0
65	5.6	10.6	9.9	9.3	8.9	8.5	8.5	7.8	7.2	6.9	5.9	5.5	4.8	.8	100.0
66	5.1	10.4	9.6	9.4	8.7	8.3	8.0	8.1	7.6	7.0	6.7	5.5	4.6	1.0	100.0
67	4.9	9.8	9.6	9.1	9.0	8.4	8.4	8.0	7.7	7.0	6.5	6.1	4.8	.6	100.0
68	4.7	8.7	8.1	8.3	7.9	8.2	8.0	7.8	7.6	7.5	6.9	6.0	5.3	5.3	100.0
69	5.5	8.8	8.9	8.7	9.1	8.4	8.2	7.9	7.5	7.4	7.3	6.2	5.1	1.0	100.0
70	6.7	7.6	7.6	8.1	7.9	8.3	7.8	7.9	7.7	7.3	6.8	6.5	5.8	4.1	100.0
71	6.0	7.0	7.4	7.6	8.0	7.6	8.1	8.2	7.9	7.7	7.2	6.6	5.6	5.1	100.0
72	6.3	6.5	6.7	7.4	7.6	8.1	7.9	8.8	8.2	7.9	7.8	6.9	5.7	4.2	100.0
73	6.7	6.4	6.3	6.6	7.3	6.7	7.9	8.6	8.7	8.3	7.8	6.9	6.0	5.8	100.0
74	6.7	6.6	6.4	6.3	6.6	7.2	7.5	8.8	8.5	8.7	8.2	7.2	6.1	5.1	100.0
75	6.9	6.7	6.4	6.4	6.3	6.6	7.4	8.5	8.6	8.5	8.4	7.6	6.7	5.1	100.0
76	7.2	7.8	7.2	7.0	7.1	7.1	7.3	8.1	8.3	8.6	8.3	8.1	6.8	1.2	100.0
77	6.6	8.0	7.8	7.2	7.1	7.0	7.2	7.7	8.1	8.2	8.6	7.9	7.4	1.2	100.0
78	6.5	7.5	8.0	7.9	7.4	7.3	7.0	7.6	7.9	8.5	8.1	8.0	7.0	1.1	100.0
79	6.4	7.3	7.4	8.1	7.9	7.4	7.4	7.3	7.5	7.9	8.3	7.7	7.5	1.7	100.0
MEAN	6.2	8.4	8.1	8.0	7.9	7.8	7.8	8.0	7.8	7.6	7.3	6.6	5.6	2.9	100.0

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TABLE 1-4. GRADE LEVEL ENROLLMENT AS A MULTIPLE OF ENROLLMENT IN THE NEXT LOWER GRADE LEVEL WITHIN THAT YEAR

YEAR	1/K	2/1	3/2	4/3	5/4	6/5	7/6	8/7	9/8	10/9	11/10	12/11
61	0	.937	.905	.913	.936	.916	.985	.969	.938	.759	.744	.831
62	1.888	.931	.987	.923	.900	.957	.912	.980	.969	.948	.703	.691
63	1.801	.939	.933	.996	.920	.920	.990	.888	.936	.991	.878	.680
64	1.931	.909	.947	.965	.976	.915	.964	.962	.885	.930	.957	.836
65	1.891	.938	.939	.954	.953	.999	.919	.929	.951	.859	.928	.883
66	2.045	.927	.972	.933	947	.972	1.013	.931	.922	.954	.826	.831
67	1.991	.979	.940	.995	.936	.995	.948	.972	.909	.931	.926	.788
68	1.835	.936	1.022	.95	1.040	.982	.967	.975	.987	.918	.877	.878
69	1.613	1.006	.976	1.047	.927	.981	.956	.946	.991	.977	.849	.825
70	1.139	1.002	1.055	.984	1.045	.937	1.017	.969	.950	.929	.962	.891
71	1.164	1.053	1.025	1.056	.959	1.061	1.012	.957	.977	.943	.915	.851
72	1.021	1.043	1.091	1.037	1.061	.976	1.116	.932	.956	.994	.884	.331
73	.963	.975	1.047	1.106	.925	1.177	1.082	1.015	.950	.949	.885	.859
74	.980	.973	.981	1.055	1.085	1.048	1.165	.968	1.029	.941	.878	.847
75	.969	.960	.995	.985	1.043	1.132	1.142	1.016	.987	.984	.912	.879
76	1.082	.922	.968	1.010	1.000	1.034	1.111	1.020	1.042	.963	.971	.838
77	1.203	.976	.931	.981	.992	1.023	1.061	1.061	1.005	1.051	.917	.942
78	1.158	1.070	.988	.933	.988	.961	1.089	1.032	1.083	.954	.987	.874
79	1.141	1.014	1.085	.982	.936	.997	.993	1.027	1.055	1.051	.921	.980
MEAN	1.434	.973	.989	.990	.977	.999	1.023	.976	.975	.949	.891	.844

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(MEANS ARE COMPUTED FROM THE NON-ZERO ENTRIES ONLY.)

TABLE 1-5. GRADE LEVEL ENROLLMENT AS A MULTIPLE OF THE ENROLLMENT IN THE PREVIOUS GRADE IN THE PREVIOUS YEAR

YEAR	K / 1	1 / 2	2 / 3	3 / 4	4 / 5	5 / 6	6 / 7	7 / 8	8 / 9	9 / 10	10 / 11	11 / 12
61/62	0	.965	1.017	1.036	1.021	1.043	1.038	1.033	1.032	1.043	.966	.898
62/63	1.995	.993	.996	1.005	1.001	1.024	1.060	1.033	.986	1.009	.935	.904
63/64	1.943	.980	.988	1.021	1.000	.996	1.042	1.013	1.009	1.002	.968	.921
64/65	1.999	.970	1.002	1.010	.998	1.022	1.027	.989	.978	.949	.947	.875
65/66	1.935	.948	.983	.977	.970	.989	1.002	1.015	1.008	1.012	.972	.870
66/67	2.000	.958	.972	.995	.998	1.048	1.023	.982	.959	.968	.939	.897
67/68	1.829	.853	.897	.907	.948	.994	.967	.994	1.009	1.019	.959	.909
68/69	1.952	1.070	1.117	1.144	1.116	1.053	1.026	1.003	1.020	1.010	.934	.879
69/70	1.454	.903	.947	.954	.952	.962	.997	1.010	1.015	.951	.937	.983
70/71	1.073	.992	1.015	1.016	.991	1.006	1.087	1.022	1.031	1.023	1.008	.892
71/72	1.088	.975	1.010	1.022	1.027	1.046	1.100	1.013	1.012	1.029	.964	.877
72/73	1.000	.955	.959	.972	.867	.962	1.066	.970	.988	.981	.874	.850
73/74	.970	.981	.986	.994	.975	1.104	1.093	.978	.992	.983	.909	.870
74/75	.999	.978	1.001	1.005	.934	1.037	1.130	.985	1.005	.961	.931	.933
75/76	1.124	1.069	1.078	1.095	1.131	1.101	1.081	.966	.991	.967	.954	.876
76/77	1.076	.970	.980	.993	[illegible]	.998	1.024	.977	.963	.971	.924	.896
77/78	1.105	.983	.994	.996	[illegible]	.972	1.035	1.006	1.027	.974	.915	.873
78/79	1.094	.958	.971	.965	[illegible]	.977	1.010	.952	.973	.945	.912	.906
MEAN	1.059	.973	.995	1.006	.995	1.019	1.045	.997	1.000	.989	.942	.895

PRODUCT OF THE MEANS IS .907

(-0 ENTRY MEANS THAT THE DATA WERE NOT AVAILABLE.)
(MEANS ARE COMPUTED FROM THE NON-ZERO ENTRIES ONLY.)
*** FOR THIS COUNTY THE GRADE K/1 MULTIPLIERS FOR THE YEARS 61/62 THROUGH 69/70 WERE EXCLUDED FROM CALCULATION OF THE MEAN.

Pages 13-329 have been removed; they contain projections for the remaining Colorado counties.

Copies of the complete document may be obtained from:

Department of Education
University of Colorado
Campus Box 249
Boulder, CO 80309